

Insecticides China Monthly Report 202305

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Contents

Headline	1
Editor's note	3
Market analysis	4
Prices of most insecticides TC set lower in early May	4
Prices of some insecticides TC go further south in late May	5
Company and supply	8
Chunjiang Runtian plans to cut fenvalerate TC capacity	8
Lanzhou Xinlongtai to expand pymetrozine TC capacity to 3,000 t/a	8
Heze Bianjing plans capacity for imidacloprid TC, acetamiprid TC, pesticide formulations	9
Policy	11
Plan for Full Implementation of Cleaner Production in Guangdong Province (2023–2025) rolled out	11
Registration	13
Three insecticide TC products approved of registration in early May	13
Pest	17
Yunnan forecasts a general moderate occurrence of crop pests	17
Trade analysis	19
Export volume of insecticide formulations from China jumps 17% YoY in Q1 2023	19
China's insecticide formulation import dips slightly YoY in Jan.–Feb. 2023	20
Brief news	22
Nanjing Huazhou promises over 1kt 97% chlorantraniliprole TC supplies to SAL in 2023	22
EI report of Hebi Baoruide's azadirachtin TK & EC project approved	22
Shandong Lukang plans to adjust pesticide formulation production capacity	22
China allocates RMB1.6 billion subsidies for wheat growing	22
Gansu to strengthen winter wheat field management	23
CCPIA lists 9 companies as 2022 excellent pesticide intermediate suppliers	23
EI report of Jining Fushun's potassium fluoride & CCMT project to be approved	24
Predatory mite commercial production base launched in Fujian	24
Shandong Ruichengda plans to build capacity for 18 insecticide formulations	24
NTAAC acquires 73.53% equity of Jiangsu Baoling	26
Price Update	27
Ex-works prices of major insecticides in China, 8 May, 2023	27
Shanghai Port prices of major insecticides in China, 8 May, 2023	29
FOB Shanghai prices of major insecticides in China, 8 May, 2023	32





Headline

In early May, prices of most insecticides TC continued to drop. Prices of carbamate insecticides TC basically kept stable, but prices of some pyrethroid insecticides TC and nicotinoid insecticides TC decreased by over 10% MoM due to weak demand.

In late May, prices of some insecticides TC kept falling. The prices of methomyl TC and deltamethrin TC decreased by some 10% and 8% respectively from the early-May level due to weak demand.

Chunjiang Runtian has planned to cut down its fenvalerate TC capacity, and it will rotate the production line to manufacture other products along with fenvalerate TC.

On 11 May, Lanzhou Xinlongtai's 6,000 t/a pymetrozine and by-product expansion project (phase II) was approved by local government. Once the project completed, the company will have 3,000 t/a pymetrozine TC capacity.

The 25,000 t/a fine chemical project is a key industrial project Suzhou Bianjing has planned right after the establishment of its wholly-owned subsidiary Heze Bianjing. Phase I of the project will build 15,000 t/a production lines for a series of pesticide formulation products, and the phase II will construct 5,000 t/a capacity for imidacloprid TC and another 5,000 t/a capacity for acetamiprid TC.

On 8 May, Guangdong Provincial Development and Reform Commission, together with other nine departments, jointly issued the Plan for Full Implementation of Cleaner Production in Guangdong Province (2023–2025). In order to enhance cleaner production in the agricultural industry, the document requires efforts to be put into promoting new models emerged in this sector, reducing the amount of cultivating additions in agricultural production, improving cleaner production level throughout the processes and strengthening utilisation of agricultural waste resources.

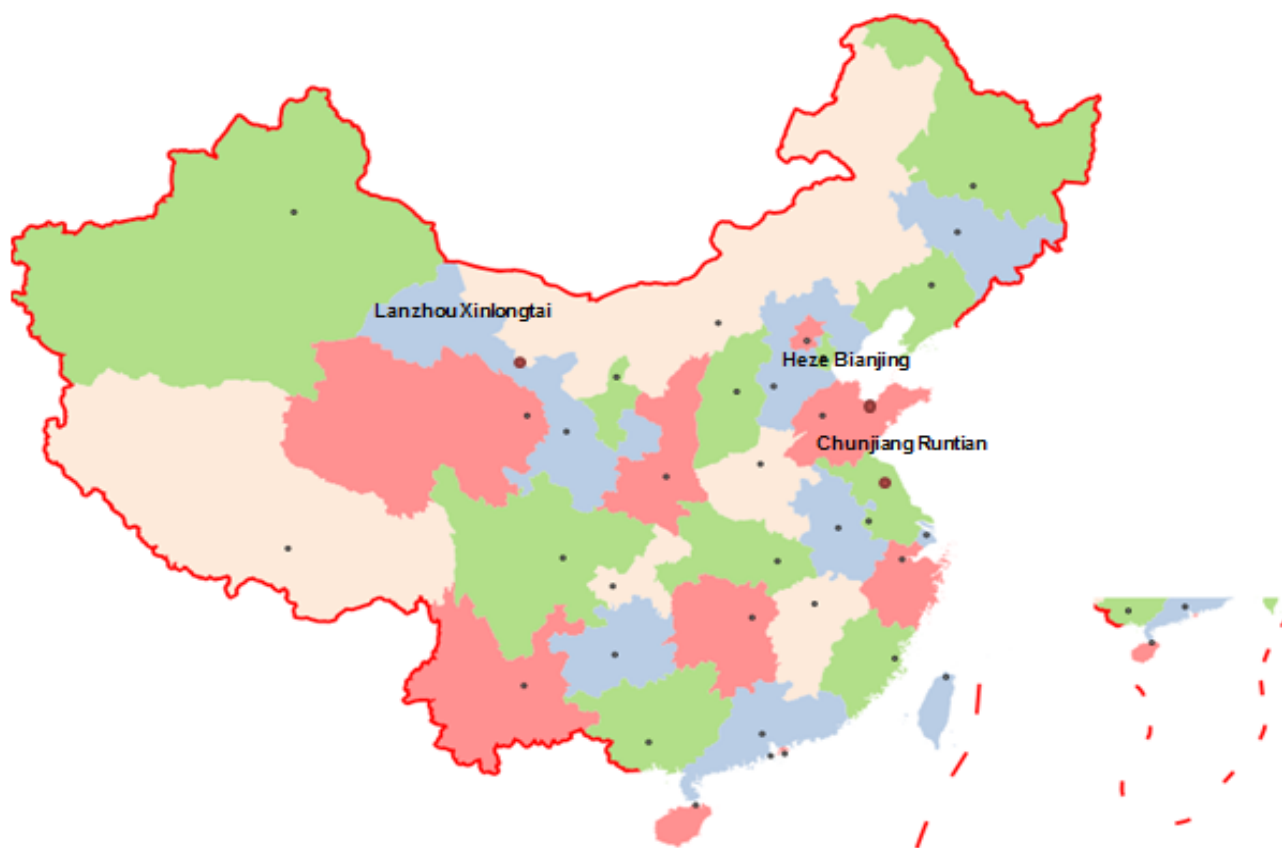
On 9 May, 2023, the Department of Agrochemical Management of MARA released a batch of products passed registration approval, which include 50 insecticide products, of which there are also four hygienic insecticides, one nematicide and one insecticide/fungicide.

On 9 May, Yunnan Provincial Department of Agriculture and Rural Affairs forecasted an overall moderate occurrence of diseases and pests on major crops across the province, with relatively heavy occurrence at some local areas, and released guiding opinions on techniques for prevention and control of major diseases and pests. Main pests include: rice planthoppers, rice stem borers, rice leaf rollers, Spodoptera frugiperda, corn borers, second-generation Mythimna separata, aphids and underground insects.

In Q1 2023, China's insecticide formulation products were mainly exported to Brazil, Myanmar, Thailand, Indonesia, etc., with an export volume of some 68,000 tonnes. The volume expanded by about 17% YoY.

In Jan.–Feb. 2023, China's insecticide formulation imports mainly came from Indonesia, Japan, Singapore, etc., with an import volume of some 1,585 tonnes. The volume was quite similar to the figure recorded in the same period last year.







Editor's note

In May, insecticide TC market has seen little improvement. Ex-works prices of insecticides TC went down in general, mainly due to sluggish downstream demand. The majority of nicotinoid insecticides and pyrethroid insecticides experienced obvious price drops.

As regards company dynamics, Chunjiang Runtian has planned to cut down its fenvalerate TC capacity, and repurpose part of the production line to produce other products, so as to increase its overall competitiveness in the pesticide market; Lanzhou Xinlongtai has planned to expand its pymetrozine TC capacity to 3,000 t/a; Heze Bianjing has proposed to build new capacity for imidacloprid TC, acetamiprid TC and pesticide formulations, and with such a project overall pesticide TC capacity under its parent company Suzhou Bianjing will have a big jump in the future.

In terms of government policy, the Plan for Full Implementation of Cleaner Production in Guangdong Province (2023–2025) was issued on 8 May. In order to enhance cleaner production in the agricultural industry, Guangdong government came up with four main requirements: promoting new models emerged in this sector, reducing the amount of cultivating additions in agricultural production, improving cleaner production level throughout the processes and strengthening utilisation of agricultural waste resources.

On 9 May, 2023, the Department of Agrochemical Management of MARA released a batch of products passed registration approval, which include 50 insecticide products. Of them, three are insecticide TC products.

The USD/CNY exchange rate in this newsletter is USD1.00 = CNY6.9054 on 4 May, 2023, sourced from the People's Bank of China. All the prices mentioned in this newsletter will include the VAT, unless otherwise specified.





Market analysis

Prices of most insecticides TC set lower in early May

Summary: In early May, prices of most insecticides TC continued to drop. Prices of carbamate insecticides TC basically kept stable, but prices of some pyrethroid insecticides TC and nicotinoid insecticides TC decreased by over 10% MoM due to weak demand.

In early May, prices of most insecticides TC were set lower since downstream demand was still weak and market inventory were at a high level. Many buyers were hesitant to place an order. Although carbamate insecticides TC and certain organophosphorus insecticides TC had stable price, most pyrethroid insecticides TC and nicotinoid insecticides TC experienced continuous price fall due to lowered raw material price as well as insufficient demand.

Organophosphorus insecticides: Ex-works price of malathion TC was stable, while the prices of profenofos TC, phoxim TC and chlorpyrifos TC went down, especially the latter two with the prices down over 6% MoM again. For chlorpyrifos, export orders contracted and domestic demand was sluggish. Early this month, chlorpyrifos producers such as Jiangsu Fengshan Group Co., Ltd. and Shandong Luba Chemical Co., Ltd. had normal production, while Chongqing Huage Biochemical Co., Ltd. still suspended its lines. Given a relatively slack demand for organophosphorus insecticides in China, prices of some products may drop in the short term.

Carbamate insecticides: Prices of carbamate insecticides TC were basically stable. Considering still weak downstream demand and a surge in demand impossible in the short term, prices of these carbamate insecticides will remain stable in the near future.

Pyrethroid insecticides: Ex-works prices of most pyrethroid insecticides TC decreased mainly due to insufficient domestic demand. Prices of bifenthrin TC, lambda-cyhalothrin TC and deltamethrin TC went down by about 10%, 12% and 14% MoM, respectively. Considering large inventory of some intermediates and a downward trend in their prices, pyrethroid insecticides TC may continue to witness price decline in the short term.

Nicotinoid insecticides: Ex-works prices of nicotinoid insecticides were lowered in general due to slack domestic demand and small exports. Prices of imidacloprid TC and acetamiprid TC dived over 10% MoM. Imidacloprid TC exports shrank, and orders at home market were few. Some imidacloprid producers suspended operation early this month, such as Wuzhong Linghang Biological & Pharmaceutical Co., Ltd., Anhui Huaxing Chemical Industry Co., Ltd. and Jiangsu Changlong Agrochemical Co., Ltd. Shandong Hailir Chemicals Co., Ltd.'s lines were in normal production, and Shandong Sino-Agri United Biotechnology Co., Ltd.'s lines operated at a low level. Supply of 2-nitroaminoimidazoline, an intermediate for imidacloprid production, was slightly unstable. Supply of another intermediate 2-chloro-5-chloromethylpyridine (CCMP) was in good order in this period, with the price rather stable. Ex-works prices of nicotinoid insecticides may decline further in the short term, given an expected weak demand both at home and abroad.



TABLE 1: Ex-works prices of major insecticide TC products in China in early May 2023

Category	Product	Ex-works price (RMB/t)	Ex-works price (USD/t)	RMB MoM change
Organophosphorus insecticide	90% Phoxim technical	39,000	5,648	-7.14%
	95% Chlorpyrifos technical	37,500	5,431	-6.48%
	90% Malathion technical	38,000	5,503	0.00%
	90% Profenofos technical	81,300	11,773	-2.98%
Carbamate insecticide	98% Carbofuran technical	105,000	15,205	0.00%
	98% Methomyl technical	77,800	11,267	-0.26%
	98% Isoprocarb technical	45,500	6,589	0.00%
Pyrethroid insecticide	97% Bifenthrin technical	176,000	25,487	-9.74%
	95% Lambda-cyhalothrin technical	138,000	19,984	-12.10%
	94% Cypermethrin technical	68,000	9,847	-4.23%
	98% Deltamethrin technical	430,000	62,270	-14.00%
Nicotinoid insecticide	97% Imidacloprid technical	89,900	13,019	-10.90%
	95% Acetamiprid technical	80,800	11,701	-11.11%

Source:CCM

Prices of some insecticides TC go further south in late May

Summary: In late May, prices of some insecticides TC kept falling. The prices of methomyl TC and deltamethrin TC decreased by some 10% and 8% respectively from the early-May level due to weak demand.

In late May, prices of some insecticides TC were set lower against sluggish downstream demand. Many buyers were still hesitant to place an order, while most producers held relatively big inventories. However, in general, trade improved as supply-demand imbalance was eased. Among the major insecticides TC, methomyl TC and deltamethrin TC experienced obvious price fall. In contrast, most organophosphorus insecticides TC and nicotinoid insecticides TC saw rather small price fluctuations.

Organophosphorus insecticides: Ex-works prices of phoxim TC and malathion TC were stable, and the prices of profenofos TC and chlorpyrifos TC went down by 3.44% and 0.53% respectively on a half-month basis. For chlorpyrifos, overall operation in producers remained steady, and the supply saw little change. Yet new orders were small. Given slack demand for organophosphorus insecticides in China, prices of some products may stabilise at current level in the short term.



Carbamate insecticides: Prices of carbofuran TC and methomyl TC were lowered; especially the latter, the late May price dropped by 10.15% from early this month. The price of isoprocarb TC kept stable. Considering weak downstream demand, prices of some carbamate insecticides will still decrease in the short term.

Pyrethroid insecticides: Ex-works prices of most pyrethroid insecticides TC continued to decline; the prices of deltamethrin TC, lambda-cyhalothrin TC and bifenthrin TC fell by about 8.14%, 5.80% and 2.84% on a half-month basis, respectively. Since the demand for pyrethroid insecticides will not change much in the short run, and prices of some intermediates are fluctuating, prices of pyrethroid insecticides TC may follow a downward trend in the near future.

Nicotinoid insecticides: Ex-works prices of nicotinoid insecticides were basically stable. The price of imidacloprid TC edged up 0.11% compared with early-May price, mainly because of shrinking supply. There was normal supply of imidacloprid intermediates; as to the demand, overseas orders were at average level, but domestic demand was relatively weak. The price of acetamiprid TC slipped by 0.50% on a half-month basis due to dull trade, especially smaller export orders. In late May, Wuzhong Linghang Biological & Pharmaceutical Co., Ltd.'s imidacloprid and acetamiprid lines were in suspension, so did the imidacloprid lines of Anhui Huaxing Chemical Industry Co., Ltd. and Jiangsu Changlong Agrochemical Co., Ltd. Shandong Sino-Agri United Biotechnology Co., Ltd.'s imidacloprid line operated at lower rate. Shandong Hailir Chemicals Co., Ltd.'s imidacloprid line was in normal production. As regards intermediates, the supply of 2-nitroaminoimidazoline, an intermediate for imidacloprid production, improved, and the price of 2-chloro-5-chloromethylpyridine (CCMP) slightly increased. Ex-works prices of nicotinoid insecticides may keep stable in the short term, given an expected little change to the supply-demand relation.





TABLE 2: Ex-works prices of major insecticide TC products in China in late May 2023

Category	Product	Ex-works price (RMB/t)	Ex-works price (USD/t)	RMB change over early May
Organophosphorus insecticide	90% Phoxim technical	39,000	5,648	0.00%
	95% Chlorpyrifos technical	37,300	5,402	-0.53%
	90% Malathion technical	38,000	5,503	0.00%
	90% Profenofos technical	78,500	11,368	-3.44%
Carbamate insecticide	98% Carbofuran technical	102,000	14,771	-2.86%
	98% Methomyl technical	69,900	10,123	-10.15%
	98% Isoprocarb technical	45,500	6,589	0.00%
Pyrethroid insecticide	97% Bifenthrin technical	171,000	24,763	-2.84%
	95% Lambda-cyhalothrin technical	130,000	18,826	-5.80%
	94% Cypermethrin technical	68,000	9,847	0.00%
	98% Deltamethrin technical	395,000	57,202	-8.14%
Nicotinoid insecticide	97% Imidacloprid technical	90,000	13,033	0.11%
	95% Acetamiprid technical	80,400	11,643	-0.50%

Source:CCM





Company and supply

Chunjiang Runtian plans to cut fenvalerate TC capacity

Summary: Chunjiang Runtian has planned to cut down its fenvalerate TC capacity, and it will rotate the production line to manufacture other products along with fenvalerate TC.

In May, CCM learned from Jiangsu Chunjiang Runtian Agrochemical Co., Ltd. (Chunjiang Runtian) that it would make use of its existing fenvalerate TC production equipment to produce fenvalerate TC as well as other products in rotation, and thus cut down its fenvalerate TC capacity from 600 t/a to 400 t/a.

According to Chunjiang Runtian, the decision of capacity contraction is made based not only on the company's development plan, but also on the trend of fenvalerate TC market. In a broader perspective, supported with Chunjiang Runtian's overall production scale for pyrethroid insecticides and market development trends of these pyrethroids, the modification to fenvalerate TC capacity will have little impact on its long-term business of pyrethroid insecticides. And even with this capacity reduction, the company can still maintain certain competitiveness in the fenvalerate TC market.

Fenvalerate is a pyrethroid insecticide that was launched into the market quite early. Although the product boasts many good properties, its market share has kept shrinking as many more pyrethroids and insecticides from other categories have been introduced to the market. The product is overshadowed by lambda-cyhalothrin and bifenthrin in competitiveness and long-term prospect. Indeed, in general, industry insiders are optimistic about the future of lambda-cyhalothrin and bifenthrin, and believe the two products will remain the backbone insecticide products and play a big role in the market for quite a long time in the future, with their advantages of high activity, relatively good eco-friendliness, etc.

Chunjiang Runtian, located in Huai'an Salt Chemical New Material Industrial Park, Huai'an City, Jiangsu Province, is one of the key enterprises in China's pesticide industry. It mainly engages in pyrethroid insecticide business, and also dabbles in other pesticide categories. Its main pyrethroid products include lambda-cyhalothrin TC, bifenthrin TC and cyfluthrin TC, beyond the aforementioned fenvalerate TC.

Currently, alongside with the 600 t/a fenvalerate TC line, Chunjiang Runtian has capacity of 2,600 t/a lambda-cyhalothrin TC, 2,400 t/a bifenthrin TC and 100 t/a cyfluthrin TC. The large-scale capacity for lambda-cyhalothrin TC and bifenthrin TC comes from expansion projects in recent years. Besides the lines for pyrethroids, it also has capacity for corresponding intermediates, with 3,600 t/a lambda-cyhalothric acid, 1,380 t/a biphenylmethanol and 3,000 t/a isopentenyl alcohol. These production lines make the company competitive not only in the production of pyrethroids, but also in upstream-downstream synergy.

Lanzhou Xinlongtai to expand pymetrozine TC capacity to 3,000 t/a

Summary: On 11 May, Lanzhou Xinlongtai's 6,000 t/a pymetrozine and by-product expansion project (phase II) was approved by local government. Once the project completed, the company will have 3,000 t/a pymetrozine TC capacity.





On 11 May, the Ecological Environment Bureau of Lanzhou New Area announced its approval of the environmental impact (EI) report of the 6,000 t/a pymetrozine and by-product expansion project (phase II) of Lanzhou Xinlongtai Biotechnology Co., Ltd. (Lanzhou Xinlongtai). Previously in Jan. this year, the bureau announced acceptance of the EI report. The company plans to invest USD43.44 million (RMB300 million) in this project; it will expand its pymetrozine TC capacity to 3,000 t/a from the existing 1,000 t/a (built up in phase I project), and at the same time expand capacity for by-products hydrochloric acid (31%) and sodium chloride. Some new supporting facilities will also be constructed. Once the project is completed, Lanzhou Xinlongtai will gain an advantageous position in the pymetrozine market.

The phase I project, 2,000 t/a pymetrozine and by-product project, was filed at the Economic Development Bureau of Lanzhou New Area on 3 July, 2019. The construction started in Oct. 2019 in the Lanzhou New Area Fine Chemical Park, Lanzhou City, Gansu Province; construction finished on 16 June, 2020 and the lines went into trial operation on 20 Aug. 2020. Completion-based environmental protection acceptance check for the project has also been organised. At present, Lanzhou Xinlongtai has 1,000 t/a active pymetrozine TC production lines.

In H2 2021, Lanzhou Xinlongtai established a subsidiary Lanzhou Senyang Longtai Chemical Co., Ltd. (Lanzhou Senyang). The new subsidiary has undertaken the construction of the 20,000 t/a triphosgene and 3,000 t/a chloroacetone project. The two products are both raw materials for the production of pymetrozine. Once the lines built up, they will complement Lanzhou Xinlongtai's existing production lines. The cost of Lanzhou Xinlongtai's pymetrozine TC production can be lowered then, and thus the company can better withstand risks. In the long term, Lanzhou Xinlongtai could generate handsome profits with its advantages in upstream materials and production scale; it can stay competitive in the pymetrozine TC market.

Data from the Institute for the Control of Agrochemicals, Ministry of Agriculture and Rural Affairs (ICAMA) show that, as of 23 May, 2023, there were 37 registered pymetrozine TC products and 313 registered pymetrozine formulation products in China. Pymetrozine is a pyridine azomethine compound and a novel non-biocidal insecticide with high degree of selectivity, low toxicity and high efficacy. Since it is environment friendly, pymetrozine has a promising market.

Heze Bianjing plans capacity for imidacloprid TC, acetamiprid TC, pesticide formulations

Summary: The 25,000 t/a fine chemical project is a key industrial project Suzhou Bianjing has planned right after the establishment of its wholly-owned subsidiary Heze Bianjing. Phase I of the project will build 15,000 t/a production lines for a series of pesticide formulation products, and the phase II will construct 5,000 t/a capacity for imidacloprid TC and another 5,000 t/a capacity for acetamiprid TC.

In May, CCM learned from Heze Bianjing Biotechnology Co., Ltd. (Heze Bianjing) of detailed production plan of its 25,000 t/a fine chemical project. The company revealed that it had been actively pushing forward with the necessary formalities for the project. Heze Bianjing is a newly established wholly-owned subsidiary of Suzhou Bianjing Agro-Biochemical Co., Ltd. (Suzhou Bianjing). The large-scale fine chemical project is Heze Bianjing's first industrial project, and through this project, Suzhou Bianjing intends to develop Heze Bianjing into a production base in the Chengwu Chemical Park, Heze City, Shandong Province. According to the plan, the phase I will build 15,000 t/a production lines for a series of pesticide formulation products, and the phase II will construct 5,000 t/a capacity for imidacloprid TC and





another 5,000 t/a capacity for acetamiprid TC.

Suzhou Bianjing is headquartered in Wuzhong District, Suzhou City, Jiangsu Province. The company engages in pesticide R&D, production and distribution businesses. In recent years, it has established several subsidiaries, including Wuwei Jieda Technology Co., Ltd. (Wuwei Jieda) and Wuzhong Linghang Biological & Pharmaceutical Co., Ltd. (Wuzhong Linghang), beyond Heze Bianjing. Wuwei Jieda was founded in Jan. 2016 and is located in the Hongshagang Industrial Park, Minqin County, Wuwei City, Gansu Province. Wuzhong Linghang was founded in March 2019 and is located in the Qingtongxia Industrial Park, Wuzhong City, Ningxia Hui Autonomous Region. Heze Bianjing was founded in Oct. 2022.

Suzhou Bianjing once built up a large production plant in its headquarters in Wuzhong District of Suzhou City. However, according to a notice released by the district-level industry and information technology bureau on 16 Feb., 2023, the company's production plant had already been closed by then, in accordance with chemical industry workplace safety and environmental protection rectification plans rolled out by local governments. In fact, to rectify and improve workplace safety and environmental protection situations in the pesticide industry, Jiangsu government has ordered a large number of pesticide enterprises within the province to close and remove their production plants. Suzhou Bianjing is just one example.

With the establishment of the subsidiaries, Suzhou Bianjing started to relocate its production capacity and develop new production bases. At present, Wuwei Jieda has 2,000 t/a capacity for 2-chloro-5-(chloromethyl)pyridine (CCMP), and Wuzhong Linghang has production capacity of 1,000 t/a acetamiprid TC, 1,000 t/a nitenpyram TC and 2,000 t/a imidacloprid TC. And now a new production plant in Heze City of Shandong Province is in progress.

It is believed that Heze Bianjing's 25,000 t/a fine chemical project is feasible and conforms to policies and documents rolled out by multilevel governments. There is a high possibility that the company could soon go through all the necessary formalities, since it has been actively cooperating with related local departments. It is worth noting that Suzhou Bianjing's Suzhou plant mainly produced pesticide formulations before the closure, and this time the planned 15,000 t/a pesticide formulation capacity in Heze Bianjing could later bridge the gap left by the closure. And once the phase II 5,000 t/a imidacloprid TC and 5,000 t/a acetamiprid TC lines are finished and thrown into operation, Suzhou Bianjing will see a giant leap in its overall production scale for imidacloprid TC and acetamiprid TC.





Policy

Plan for Full Implementation of Cleaner Production in Guangdong Province (2023–2025) rolled out

Summary: On 8 May, Guangdong Provincial Development and Reform Commission, together with other nine departments, jointly issued the Plan for Full Implementation of Cleaner Production in Guangdong Province (2023–2025). In order to enhance cleaner production in the agricultural industry, the document requires efforts to be put into promoting new models emerged in this sector, reducing the amount of cultivating additions in agricultural production, improving cleaner production level throughout the processes and strengthening utilisation of agricultural waste resources.

On 8 May, Guangdong Provincial Development and Reform Commission, together with other nine departments, jointly issued the Plan for Full Implementation of Cleaner Production in Guangdong Province (2023–2025). Promoting cleaner production is an important measure to implement the basic state policy of resource conservation and environmental protection. In this document, the following aspects are outlined to intensify cleaner production in the agricultural industry in the province:

Promotion of new cleaner production models

Specific requirements for high quality development in individual local areas should be fulfilled and cleaner production in the agricultural industry speed up. Accelerate establishing cleaner production technical systems for crop farming, livestock and poultry breeding, and aquaculture, and develop models for development taking into account coordination of food, cash, and fodder crop production, integration of planting, breeding, and processing, as well as integration of farming, forestry, livestock, and fishing industries, etc. Vigorously push forward green, low-carbon and circular agriculture, and spread low-carbon agriculture models. Increase the supply of clean energies and push ahead comprehensive utilisation of biomass energy in rural areas. Develop circular economy of forestry and foster leading forestry enterprises; build up forestry industrial development bases with Guangdong's characteristics, actively create national-level demonstration zones of modern forestry industry, and participate in the forestry eco-product project.

Reduction in the amount of cultivating additions in agricultural production

Strengthen standardised management in each link from production to distribution of agricultural cultivating additions. Establish provincial traceability system for agricultural inputs including pesticides and veterinary drugs. Continue the campaign of usage reduction and efficacy enhancement of fertilisers and pesticides, and the ban on certain antibiotics in fodder. Work out overall planning for green control and specialised control. Launch pilot projects for green, recycling crop-livestock integrated agriculture. Increase efforts in innovative R&D of green agricultural inputs. Actively promote new fertilisers like slow-release fertiliser, water-soluble fertiliser and microbial fertiliser, and expand channels for livestock manure, green manure and straw to return to fields. Develop and spread the use of biodegradable mulching agricultural film.

Improvement of cleaner production level throughout the whole agricultural processes

Promote the adoption of agricultural technologies and machinery that are environment-friendly and serve the purposes of conserving water, fertiliser, pesticide, land or energy, and thus form high-efficacy and clean agricultural production patterns. Food production functional areas, key food production counties and modern agricultural industrial parks should be given support with priority, and forces





concentrated on constructing high-standard farmland. Further improve balance fertilisation by soil testing, and promote efficient fertilisation models. Popularise healthy animal husbandry techniques in an all-round way, and encourage use reduction of veterinary antimicrobial drugs. Speed up establishing cleaner production technical systems for crop farming, livestock and poultry breeding, and aquaculture, and develop models for integrated development of planting, breeding, and processing.

Strengthened utilisation of agricultural waste resources

Encourage comprehensive utilisation of straw. Reinforce the management of agricultural film, and promote the use of standard mulching film. Facilitate the application of pickup machines, professional collection and recycling of waste resources. Set up a system for the recovery and disposal of pesticide packaging wastes. Make sustained efforts to promote utilisation of animal manure and sewage, return the animal faeces to the fields nearby, and thus it can benefit mutual development of crop farming and animal husbandry. Explore methods of returning liquid organic fertilisers to fields, full collection and returning of animal manure and sewage, and thus it can deepen the integration of planting and breeding. Carry out pilot programs of harmless treatment and utilisation of dead and diseased livestock and poultry, and create national-level green agricultural development pioneer areas. Make progress in eco-friendly planting demonstration projects and livestock waste treatment demonstration projects. Advance coordination of source control, pollution interception, end-of-pipe treatment, and recycling.





Registration

Three insecticide TC products approved of registration in early May

Summary: On 9 May, 2023, the Department of Agrochemical Management of MARA released a batch of products passed registration approval, which include 50 insecticide products, of which there are also four hygienic insecticides, one nematocide and one insecticide/fungicide.

On 9 May, 2023, the Department of Agrochemical Management of the Ministry of Agriculture and Rural Affairs of the People's Republic of China (MARA) released a batch of pesticide products approved of registration, which include 50 insecticide products, with four hygienic insecticides, a nematocide and an insecticide/fungicide included. Most of these insecticides are of low or mild toxicity, and the most popular form is SC.

Major active ingredients in these insecticide products are chlorantraniliprole, flonicamid, bifenthrin, dinotefuran and lufenuron. Altogether six registrants have at least two insecticide products approved of registration this time. Of the 50 approved insecticide products, three are TC products—a 98% teflubenzuron TC from Zhejiang Nanjiao Chemistry Co., Ltd., a 97% teflubenzuron TC from Jiangsu Flag Chemical Industry Co., Ltd. and a 95% metofluthrin TC from Jiangsu Youjia Crop Protection Co., Ltd. It should be noted that the two approved teflubenzuron TC products are granted with export-only registrations. Another export-only registration is given to an abamectin 3.6% EC from Ningxia Taiyicin Biotech Co., Ltd.

TABLE 3: Insecticide products approved of registration by toxicity released on 9 May, 2023

No.	Toxicity	Number
1	Low	39
2	Mild	8
3	Moderate	2
4	Moderate (TC: highly toxic)	1
Total		50

Source: The Department of Agrochemical Management of MARA



**TABLE 4:** Insecticide products approved of registration by form released on 9 May, 2023

No.	Form	Number
1	SC	29
2	GR	4
3	WG	4
4	TC	3
5	EC	2
6	ME	2
7	LV	1
8	SL	1
9	TK	1
10	EW	1
11	SE	1
12	FS	1
Total		50

Source: The Department of Agrochemical Management of MARA



TABLE 5: Major active ingredients of insecticide products approved of registration released on 9 May, 2023

No.	Active ingredient	Number
1	Chlorantraniliprole	8
2	Flonicamid	4
3	Bifenthrin	4
4	Dinotefuran	4
5	Lufenuron	4
6	Thiamethoxam	3
7	Clothianidin	3
8	Chlorfenapyr	3

Source: The Department of Agrochemical Management of MARA

TABLE 6: Registrants with at least two insecticide products approved of registration released on 9 May, 2023

No.	Registrant	Number
1	Jiangxi Bumper Biological Technology Co., Ltd.	4
2	Shaanxi Tunpsion Bio-Technology Co., Ltd.	4
3	Tonghua Pesticide Chemical Co., Ltd.	4
4	Shandong Tiandao Bioengineering Co., Ltd.	2
5	Shandong Yuanfeng Biotechnology Co., Ltd.	2
6	Shandong Zhongxin Kenong Bio-Technology Co., Ltd.	2

Source: The Department of Agrochemical Management of MARA

TABLE 7: Insecticide products approved of export-only registration released on 9 May, 2023

No.	Registrant	Pesticide name	Form
1	Ningxia Taiyicin Biotech Co., Ltd.	Abamectin	EC
2	Zhejiang Nanjiao Chemistry Co., Ltd.	Teflubenzuron	TC
3	Jiangsu Flag Chemical Industry Co., Ltd.	Teflubenzuron	TC



Source: *The Department of Agrochemical Management of MARA*



Pest

Yunnan forecasts a general moderate occurrence of crop pests

Summary: On 9 May, Yunnan Provincial Department of Agriculture and Rural Affairs forecasted an overall moderate occurrence of diseases and pests on major crops across the province, with relatively heavy occurrence at some local areas, and released guiding opinions on techniques for prevention and control of major diseases and pests. Main pests include: rice planthoppers, rice stem borers, rice leaf rollers, *Spodoptera frugiperda*, corn borers, second-generation *Mythimna separata*, aphids and underground insects.

On 9 May, Yunnan Provincial Department of Agriculture and Rural Affairs made forecasts on occurrences of major diseases and pests on rice, maize, potato, soybean-maize strip intercropping fields, and offered guiding opinions on techniques for prevention and control of these diseases and pests. It is forecasted an overall moderate occurrence of diseases and pests across the province, with relatively heavy occurrence at some local areas. Main pests include: rice planthoppers, rice stem borers, rice leaf rollers, *Spodoptera frugiperda*, corn borers, second-generation *Mythimna separata*, aphids and underground insects.

TABLE 8: Forecasts of occurrence of major diseases and pests in Yunnan Province, May 2023

Crop/Pest	Occurrence forecast of major diseases and pests	Estimated occurring area of major diseases and pests, '000 ha	Typical pests
Rice	Moderate occurrence in general, with relatively heavy occurrence at some local areas	756.67	Rice planthoppers, rice stem borers and rice leaf rollers
Maize	Moderate occurrence in general, with relatively heavy occurrence at some local areas	3,526.67	<i>Spodoptera frugiperda</i> , corn borers, second-generation <i>Mythimna separata</i> and aphids
Potato	Moderate occurrence in general, and relatively heavy occurrence of late blight in general with heavy occurrence at some local areas. Situations of underground insects, potato virus disease, etc. may deteriorate.	406.67	Underground insects
<i>Spodoptera frugiperda</i>	Moderate occurrence in general, with relatively heavy occurrence at some local areas	2,333.33 /	

Source: Yunnan Provincial Department of Agriculture and Rural Affairs

Suggestions for prevention and control of major diseases and pests

- On rice: Measures should be taken to achieve damage control, protect rice yield, reduce pesticide use and increase pesticide efficacy. Choose disease/pest-resistant or disease/pest-tolerant varieties, and cultivate healthy crops. Reasonably apply high-efficacy low-risk pesticides in unified prevention and control efforts to ensure rice quality and safety with efficient production.
- On maize: Stick to prevention-first principle, and carry out prevention and control actions at differentiated zones. Adopt measures like ecological regulation, physical and chemical lure and control, biological prevention and control, and pesticide use in a scientific



manner. Strengthen comprehensive prevention and control of diseases and pests at mid-to-late growth stage to ensure safe maize production.

- On potato: Choose virus-free seed potatoes and disease-resistant varieties. Use the right pesticides and apply them with precision. Promote green prevention and control measures.
- In soybean-maize strip intercropping fields: Jointly take multiple technical measures such as agricultural control, physical and chemical lure and control, biological prevention and control, and pesticide use in a scientific manner. Exercise whole-process control over diseases and pests, and efficiently use crop protection machinery, so as to reduce harm and losses wrought by diseases and pests.
- Targeting *Spodoptera frugiperda*: Adhere to the principles of targeted guidance and differentiated measures. Give priorities to green prevention and control technologies, biological control of pest eggs and early-instar larvae, and pesticide use in a scientific manner.





Trade analysis

Export volume of insecticide formulations from China jumps 17% YoY in Q1 2023

Summary: In Q1 2023, China's insecticide formulation products were mainly exported to Brazil, Myanmar, Thailand, Indonesia, etc., with an export volume of some 68,000 tonnes. The volume expanded by about 17% YoY.

According to statistics from General Administration of Customs of the People's Republic of China (China Customs), in Q1 2023, China altogether exported 68,133.89 tonnes (actual volume, the same hereafter) of insecticide formulation products with a total export value of USD375.50 million. Major export destinations were Brazil, Myanmar, Thailand, Indonesia, etc. Compared with the volume of insecticide formulations exported from China in Q1 2022, this year's figure saw a 16.93% increase.

The average export price of China's insecticide formulations in Q1 2023 had a marked decline; it landed at USD5.47/kg, down 19.32% YoY. It is worth noting that ex-works prices of insecticides TC in China were in a general downtrend in this period.

Insecticide formulations from China were exported to some 140 countries or regions in Q1 2023. Of the top five export destinations, Brazil and Myanmar witnessed growing insecticide formulations exported from China. Myanmar, in particular, the volume almost doubled YoY to some 5,276 tonnes in the first three months this year, and its position in the top destination list came to the second place from the fifth in Q1 2022.

TABLE 9: Insecticide formulation exports from China, Q1 2023 vs Q1 2022

Month	2023		2022	
	Volume, kg	Average price, USD/kg	Volume, kg	Average price, USD/kg
Jan.	22,774,349	5.52	26,884,824	6.54
Feb.	17,346,315	5.14	12,003,028	6.8
March	28,013,226	5.74	19,382,016	6.99
Total	68,133,890	5.47	58,269,868	6.78

Note:1. The data were updated to 6 May, 2023.

2. All the data here are calculated by actual volume.

Source:China Customs



TABLE 10: Top 10 destinations of insecticide formulations exported from China, Q1 2023 vs Q1 2022

No.	Q1 2023			Q1 2022		
	Destination	Volume, tonne	Share	Destination	Volume, tonne	Share
1	Brazil	5,282	7.75%	Thailand	4,916	8.44%
2	Myanmar	5,276	7.74%	Brazil	4,495	7.71%
3	Thailand	4,830	7.09%	Indonesia	3,737	6.41%
4	Indonesia	3,239	4.75%	Vietnam	3,100	5.32%
5	Nigeria	3,161	4.64%	Myanmar	2,752	4.72%
6	Cote d'Ivoire	2,820	4.14%	Ghana	2,611	4.48%
7	Vietnam	2,611	3.83%	Bangladesh	2,105	3.61%
8	Ghana	2,358	3.46%	The Philippines	1,751	3.00%
9	Bangladesh	2,306	3.38%	Kenya	1,740	2.99%
10	Cambodia	1,681	2.47%	Pakistan	1,688	2.90%

Note:1. The data were updated to 6 May, 2023.

2. All the data here are calculated by actual volume.

Source:China Customs

China's insecticide formulation import dips slightly YoY in Jan.–Feb. 2023

Summary: In Jan.–Feb. 2023, China's insecticide formulation imports mainly came from Indonesia, Japan, Singapore, etc., with an import volume of some 1,585 tonnes. The volume was quite similar to the figure recorded in the same period last year.

According to statistics from General Administration of Customs of the People's Republic of China (China Customs), in Jan.–Feb. 2023, China altogether imported 1,585.26 tonnes (actual volume, the same hereafter) of insecticide formulation products with a total import value of USD58.35 million. Major import origins were Indonesia, Japan, Singapore, the US, etc. Compared with the volume of insecticide formulations imported to China in Jan.–Feb. 2022, this year's figure saw a tiny 0.56% dip.

During Jan.–Feb. 2023, the import price of insecticide formulations averaged at USD36.81/kg, down 5.86% YoY; insecticide formulations were mainly imported from 19 countries or regions. Of the top five import origins, Japan and Singapore experienced YoY growth in insecticide formulation export to China. The volume from Japan to China jumped to 376.36 tonnes in the first two months this year, which made Japan the second largest origin in this period, climbing up from the fifth in the same period last year.

TABLE 11: Jan. and Feb. imports of insecticide formulations to China, 2023 vs 2022

Month	2023		2022	
	Volume, kg	Average price, USD/kg	Volume, kg	Average price, USD/kg
Jan.	532,061	31.28	771,580	43.15
Feb.	1,053,199	42.34	822,652	35.04
Total	1,585,260	36.81	1,594,232	39.10

Note:1. The data were updated to 4 May, 2023.

2. All the data here are calculated by actual volume.

Source:China Customs

TABLE 12: Top 10 origins of insecticide formulations imported to China, Jan.–Feb. 2023 vs Jan.–Feb. 2022

No.	Jan.–Feb. 2023			Jan.–Feb. 2022		
	Destination	Volume, tonne	Share	Destination	Volume, tonne	Share
1	Indonesia	437.94	27.63%	Indonesia	567.65	35.61%
2	Japan	376.36	23.74%	Vietnam	181.23	11.37%
3	Singapore	260.34	16.42%	The US	171.84	10.78%
4	The US	170.93	10.78%	Singapore	170.66	10.70%
5	Vietnam	92.54	5.84%	Japan	143.24	8.98%
6	South Korea	68.74	4.34%	South Korea	122.80	7.70%
7	India	67.59	4.26%	Australia	106.11	6.66%
8	Australia	57.78	3.64%	India	45.50	2.85%
9	France	35.03	2.21%	Denmark	24.72	1.55%
10	Denmark	8.24	0.52%	Israel	19.80	1.24%

Note:1. The data were updated to 4 May, 2023.

2. All the data here are calculated by actual volume.

Source:China Customs



Brief news

Nanjing Huazhou promises over 1kt 97% chlorantraniliprole TC supplies to SAL in 2023

On 28 April, Nanjing Red Sun Co., Ltd. (Nanjing Red Sun) announced that its wholly-owned sub-subsidiary Nanjing Huazhou Pharmaceutical Co., Ltd. (Nanjing Huazhou) had recently signed a framework agreement for strategic cooperation with Sino-Agri Leading Biosciences Co., Ltd. (SAL), a state-owned enterprise mainly involved in businesses of pesticide circulation and plant protection services. As per the agreement, Nanjing Huazhou has promised to supply at least 1,000 tonnes of 97% chlorantraniliprole TC to SAL throughout the year 2023. Once SAL offers to purchase 20% more than the agreed volume, Nanjing Huazhou should try its best to satisfy the demand.

Signing this framework agreement is conducive to enhancing Nanjing Red Sun's participation in the sales of chlorantraniliprole products, boosting its competitiveness and say in insecticide market, and strengthening product competitiveness as well as brand impact. It is expected that the signing will exert positive effects on Nanjing Red Sun's business performance.

EI report of Hebi Baoruide's azadirachtin TK & EC project approved

On 9 May, the Ecological Environment Bureau of Hebi City announced that it had decided to approve the environmental impact (EI) report of the 100 t/a 12% azadirachtin TK and 1,000 t/a azadirachtin 0.7% EC project of Hebi Baoruide Chemical Co., Ltd. (Hebi Baoruide). The company has proposed to transform some production equipment in the Workshop No.2 to serve the new project, since products from this workshop had unsatisfied sales and thus the company had to find a new way to generate more profits.

At present, Hebi Baoruide's Workshop No.2 accommodates the production lines of 1,200 t/a 2-[2-(4-chlorophenyl)ethyl]-2-(1,1-dimethylethyl)-oxirane and 1,000 t/a tebuconazole, which were built up through the company's previous 2,200 t/a chemicals project that was approved in June 2022 by local government. These two lines are still in trial run and yet to go through environmental protection check. Before this 2,200 t/a transformation project, the Workshop No.2 was used for the production of fluorosulfide diphenyl ether.

Shandong Lukang plans to adjust pesticide formulation production capacity

On 5 May, local authorities announced that they had planned to approve the environmental impact report of the pesticide formulation upgrading project of Shandong Lukang Biological Pesticide Co., Ltd. (Shandong Lukang). The company has planned to invest USD9.97 million (RMB68.86 million) in this project, which will construct production lines for new pesticide formulation products in its existing plant located in the northern end of Jinneng Road, Qihe County, Dezhou City, Shandong Province. Scheduled construction period lasts two months.

With this project, Shandong Lukang will close lines for 7 old products, slash capacity for an old product, and set up new lines for 14 new products. New capacity includes 1,505 t/a *Bacillus thuringiensis* SC, 215 t/a *Bacillus thuringiensis* DP, 300 t/a lambda-cyhalothrin, 300 t/a petroleum oil and 380 t/a emamectin benzoate·beta-cypermethrin. Once the project is finished, total pesticide formulation capacity in the company will reduce to 3,537 t/a.





China allocates RMB1.6 billion subsidies for wheat growing

Recently, the Chinese central government allocated USD231.70 million (RMB1.6 billion) subsidies to facilitate pesticide spraying work (to guard against pests, diseases, dry-hot wind and lodging) in this critical time period for wheat yield formation in some 22 wheat growing provinces including Hebei, Anhui, Shandong, Henan, Gansu, Ningxia, Xinjiang.

Spraying mixtures of insecticides, fungicides, plant growth regulators, etc. in the middle-to-late wheat growth stage, on both winter wheat and spring wheat (harvested in summer), can help protect large wheatears, increase grain weight and raise per-unit yield, which promotes a stable harvest of summer-grain wheat, as well as lays the foundation to maintain an over-650 million tonnes of whole-year grain output.

Gansu to strengthen winter wheat field management

On 27 April, Gansu Provincial Agro-Tech Extension Station released the Technical Guiding Opinions on Field Management of Winter Wheat at Middle-to-late Growth Stage, in order to enhance guidance on agricultural production and fight for a bumper harvest of summer grains.

According to the document, currently in Gansu Province, winter wheat is mainly in the double ridge stage to booting stage. After the autumn sowing in 2022, wheat seeds germinated at basically the same pace in the province. However, some farmers in the eastern and southern parts seeded their fields relatively earlier, and on much too large areas, and thus on some pieces of the land where wheat grows rather fast, there exist greater risks of lodging. As the wheat lived through winter and resumed growth, critical growing periods should be closely followed, favourable precipitation opportunities seized, and agro-technicians as well as farmers mobilised to carry out appropriate field management measures, in order to facilitate sound growth of the seedlings.

Right now it is crucial time for winter wheat tillering, spikes bearing and spikelet development. Weather forecasts said major growing areas in the province would welcome rains in the days to come, which could effectively ease the drought and increase moisture content in the soil, and thus provide favourable conditions for wheat seedling growing. The forecasts also warned that before mid-May, there were big possibilities of strong decrease in temperature in some local areas, and the late spring coldness would induce cold damages. Considering such situations, different technical guidance is offered for three growth stages: double ridge to booting stage, booting to filling stage, and the ripening stage.

CCPIA lists 9 companies as 2022 excellent pesticide intermediate suppliers

On 16 May, China Crop Protection Industry Association (CCPIA) released the List of Excellent Suppliers of Pesticide Intermediates for the Year 2022. Nine enterprises are on the list, including Ningxia Beilite Biotechnology Co., Ltd. (Ningxia Beilite). Ningxia Beilite now has active production lines of 7,000 t/a 2-nitroaminoimidazoline and 6,000 t/a 3-methyl-4-nitroiminoperhydro-1,3,5-oxadiazine; the former is an intermediate for the synthesis of imidacloprid, and the latter an intermediate for the synthesis of thiamethoxam.



**TABLE 13:** List of Excellent Suppliers of Pesticide Intermediates for the Year 2022

No.	Enterprise
1	Hebei Chengxin Co., Ltd.
2	Hebei Yanuo Bioscience Co., Ltd.
3	Honghu Yitai Technology Co., Ltd.
4	Jiangxi Yuanxing Chemical Co., Ltd.
5	Ningxia Beilite Biotechnology Co., Ltd.
6	Ningxia Soochow Agrochemical Co., Ltd.
7	Shandong Huimeng Bio-tech Co., Ltd.
8	Shanxi Ruisaike Environmental Protection Technology Co., Ltd.
9	Sinochem Lantian Co., Ltd.

Source:CCPIA

EI report of Jining Fushun's potassium fluoride & CCMT project to be approved

On 15 May, Yutai Branch of Jining Municipal Ecological Environment Bureau announced that it had planned to approve the environmental impact (EI) report of Jining Fushun Chemical Co., Ltd. (Jining Fushun)'s 30,000 t/a of potassium fluoride and 5,000 t/a 2-chloro-5-chloromethylthiazole (CCMT) expansion project. The company has planned to invest USD14.48 million (RMB100 million) in this project, which will build 30,000 t/a new capacity for potassium fluoride and expand CCMT capacity to 5,000 t/a from the existing 3,000 t/a. Jining Fushun expects that the project will be completed and the lines put into operation in Oct. this year.

CCMT is a necessary intermediate for the synthesis of neonicotinoid insecticides such as thiamethoxam, thiacloprid and imidaclothiz.

Predatory mite commercial production base launched in Fujian

Early May, Fujian Provincial Department of Agriculture and Rural Affairs revealed that the biggest predatory mite commercial production base in Asia had settled in the Minhou Economic & Technological Development Zone in Fujian Province, and it had been officially put into use. The base has been recognised as a national-level predatory mite propagation base; it can annually produce 800 billion predatory mites, along with 10 billion *Trichogramma* sp., 30 billion ladybirds and 10 billion *Fopius arisanus*. All these are natural enemies to some agricultural pests, and they can be widely used in tea gardens, orchards and on crops like rice and cotton. Automated devices and automation technologies have been adopted in the base, which greatly slashes costs. In this way, costs of biological control can be less than the costs of chemical control, and thus farmers' dependence on chemical pesticides can be lessened.



Shandong Ruichengda plans to build capacity for 18 insecticide formulations

On 16 May, the Shanghe Branch of the Bureau of Ecology and Environment of Jinan City announced acceptance of the environmental impact (EI) report of the 3,000 t/a new biopesticide formulation project of Shandong Ruichengda Biotechnology Co., Ltd. (Shandong Ruichengda). The company plans to invest USD15.93 million (RMB110 million) to construct the project in the Jinan Crop Protection Technology Industrial Park, Shanghe County, Jinan City, Shandong Province. Proposed products by Shandong Ruichengda include 18 insecticide products, along with 11 herbicide products and a pesticide synergist product.

TABLE 14: Insecticide formulation products proposed by Shandong Ruichengda

No.	Product	Capacity, t/a
1	Pyraclostrobin·tebuconazole 40% SC	200
2	Chlorfenapyr·indoxacarb 10% SC	150
3	Difenoconazole·fludioxonil·thiamethoxam 27% FS	50
4	Tebuconazole 60g/L FS	50
5	Abamectin·acetamiprid 5% EC	100
6	Prochloraz 25% EC	100
7	Abamectin 3% EW	50
8	Prochloraz 450g/L EW	50
9	Abamectin·aminomethyl 2% ME	100
10	Propargite 40% ME	50
11	Chlorpyrifos 30% CS	50
12	Cyhalothrin·clothianidin 25% ZC	50
13	Imidacloprid 10% WP	100
14	Carbendazim 42%·tricyclazole 8% WP	50
15	Abamectin·aminomethyl 5% WG	150
16	Azoxystrobin 50% WG	50
17	Abamectin 0.5%·fosthiazate 10% GR	100
18	Chlorpyrifos 10% GR	100

Source: EI report of Shandong Ruichengda's 3,000 t/a biopesticide formulation project



NTAAC acquires 73.53% equity of Jiangsu Baoling

On 22 May, Nantong Acetic Acid Chemical Co., Ltd. (NTAAC) published an announcement on an acquisition of equity interests in a related-party transaction, which said that NTAAC, along with its related party Nantong Tianshun Investment Partnership Enterprise (Limited Partnership), had purchased 22.25 million shares, or 73.53% equity, of Jiangsu Baoling Chemical Co., Ltd. (Jiangsu Baoling). The consideration of this transaction was determined at USD15.85 million (RMB109.47 million). On 20 May, 2023, all parties to the transaction signed the Equity Transfer Agreement.

NTAAC mainly engages in the R&D, production and sale of high-end specialty fine chemicals represented by acetic acid derivatives and pyridine derivatives. Major applications of these products are: preservation of food and feed, production of pharmaceuticals and pesticides, and production of dyes/pigments.

Jiangsu Baoling, founded on 16 May, 1997, and its registered capital now stands at about USD4.38 million (RMB30.26 million). Its registered address is No. 9 Tongwang Road, Nantong Economic & Technological Development Area, Nantong City, Jiangsu Province. The company mainly engages in the R&D, production and sale of chemical pesticides and intermediates. Its main products include chlorpyrifos TC, tebufenozide TC, metalaxyl-M TC and other insecticide and fungicide TC & formulation products.





Price Update

Ex-works prices of major insecticides in China, 8 May, 2023

TABLE 15: Ex-works prices of major insecticides in China, 8 May, 2023

Product	20230408		20230508	
	Original Price (RMB/t)	Price (USD/t)	Original Price (RMB/t)	Price (USD/t)
95% Abamectin technical	453,500	65,910.91	419,000	60,677.15
97% Acephate technical	50,000	7,266.91	47,500	6,878.67
95% Acetamiprid technical	90,900	13,211.25	80,800	11,700.99
95% Azocyclotin technical	220,000	31,974.42	220,000	31,859.12
95% Beta-Cypermethrin technical	138,000	20,056.68	130,000	18,825.85
97% Bifenthrin technical	195,000	28,340.96	176,000	25,487.3
95% Buprofezin technical	73,000	10,609.69	70,000	10,136.99
98% Carbofuran technical	105,000	15,260.52	105,000	15,205.49
98% Chlorfenapyr technical	170,000	24,707.51	150,000	21,722.13
95% Chlorfluazuron technical	415,000	60,315.38	400,000	57,925.68
95% Chlorpyrifos technical	40,100	5,828.06	37,500	5,430.53
94% Cypermethrin technical	71,000	10,319.02	68,000	9,847.37
99% Cyromazine technical	137,000	19,911.34	132,000	19,115.47
98% Deltamethrin technical	500,000	72,669.14	430,000	62,270.11





Product	20230408		20230508	
	Original Price (RMB/t)	Price (USD/t)	Original Price (RMB/t)	Price (USD/t)
95% Diafenthiuron technical	123,000	17,876.61	120,000	17,377.7
98% Dimethoate technical	47,600	6,918.1	47,600	6,893.16
70% Emamectin benzoate technical	400,000	58,135.31	374,500	54,232.92
92% Fenvalerate technical	140,000	20,347.36	140,000	20,273.99
95% Fipronil technical	510,000	74,122.52	486,800	70,495.55
98% Hexaflumuron technical	480,000	69,762.37	460,000	66,614.53
97% Imidacloprid technical	100,900	14,664.63	89,900	13,018.8
98% Isoprocarb technical	45,500	6,612.89	45,500	6,589.05
95% Lambda-cyhalothrin technical	157,000	22,818.11	138,000	19,984.36
90% Malathion technical	38,000	5,522.85	38,000	5,502.94
95% Methidathion technical	90,000	13,080.44	90,000	13,033.28
Methomyl 90% SP	72,200	10,493.42	72,500	10,499.03
98% Methomyl technical	78,000	11,336.39	77,800	11,266.55
75% Omethoate technical	52,000	7,557.59	52,000	7,530.34
90% Phoxim technical	42,000	6,104.21	39,000	5,647.75
90% Profenofos technical	83,800	12,179.35	81,300	11,773.39
90% Propargite technical	60,000	8,720.3	60,000	8,688.85





Product	20230408		20230508	
	Original Price (RMB/t)	Price (USD/t)	Original Price (RMB/t)	Price (USD/t)
95% Pymetrozine technical	105,500	15,333.19	110,000	15,929.56
95% Pyridaben technical	105,000	15,260.52	102,000	14,771.05
97% Spirodiclofen technical	155,000	22,527.43	155,000	22,446.2
85% Triazophos technical	69,000	10,028.34	69,000	9,992.18

Note: Ex-works price includes VAT.

Source: CCM

Shanghai Port prices of major insecticides in China, 8 May, 2023





TABLE 16: Shanghai Port prices of major insecticides in China, 8 May, 2023

Product	20230408		20230508	
	Original Price (RMB/t)	Price (USD/t)	Original Price (RMB/t)	Price (USD/t)
95% Abamectin technical	454,000	65,983.58	419,500	60,749.56
97% Acephate technical	50,500	7,339.58	48,000	6,951.08
95% Acetamiprid technical	91,400	13,283.92	81,300	11,773.39
95% Azocyclotin technical	220,500	32,047.09	220,500	31,931.53
95% Beta-Cypermethrin technical	138,500	20,129.35	130,500	18,898.25
97% Bifenthrin technical	195,500	28,413.63	176,500	25,559.71
95% Buprofezin technical	73,500	10,682.36	70,500	10,209.4
98% Carbofuran technical	105,500	15,333.19	105,500	15,277.9
98% Chlorfenapyr technical	170,500	24,780.18	150,500	21,794.54
95% Chlorfluazuron technical	415,500	60,388.05	400,500	57,998.09
95% Chlorpyrifos technical	40,600	5,900.73	38,000	5,502.94
94% Cypermethrin technical	71,500	10,391.69	68,500	9,919.77
99% Cyromazine technical	137,500	19,984.01	132,500	19,187.88
98% Deltamethrin technical	500,500	72,741.81	430,500	62,342.51
95% Diafenthiuron technical	123,500	17,949.28	120,500	17,450.11





Product	20230408		20230508	
	Original Price (RMB/t)	Price (USD/t)	Original Price (RMB/t)	Price (USD/t)
98% Dimethoate technical	48,100	6,990.77	48,100	6,965.56
70% Emamectin benzoate technical	400,500	58,207.98	375,000	54,305.33
92% Fenvalerate technical	140,500	20,420.03	140,500	20,346.4
95% Fipronil technical	510,500	74,195.19	487,300	70,567.96
98% Hexaflumuron technical	480,500	69,835.04	460,500	66,686.94
97% Imidacloprid technical	101,400	14,737.3	90,400	13,091.2
98% Isoprocarb technical	46,000	6,685.56	46,000	6,661.45
95% Lambda-cyhalothrin technical	157,500	22,890.78	138,500	20,056.77
90% Malathion technical	38,500	5,595.52	38,500	5,575.35
95% Methidathion technical	90,500	13,153.11	90,500	13,105.69
Methomyl 90% SP	72,700	10,566.09	73,000	10,571.44
98% Methomyl technical	78,500	11,409.05	78,300	11,338.95
75% Omethoate technical	52,500	7,630.26	52,500	7,602.75
90% Phoxim technical	42,500	6,176.88	39,500	5,720.16
90% Profenofos technical	84,300	12,252.02	81,800	11,845.8
90% Propargite technical	60,500	8,792.97	60,500	8,761.26
95% Pymetrozine technical	106,000	15,405.86	110,500	16,001.97





Product	20230408		20230508	
	Original Price (RMB/t)	Price (USD/t)	Original Price (RMB/t)	Price (USD/t)
95% Pyridaben technical	105,500	15,333.19	102,500	14,843.46
97% Spirodiclofen technical	155,500	22,600.1	155,500	22,518.61
85% Triazophos technical	69,500	10,101.01	69,500	10,064.59

Note: Shanghai port price = ex-works price + transportation fee from warehouse to Shanghai port, and the ex-works price includes VAT
Source: CCM

FOB Shanghai prices of major insecticides in China, 8 May, 2023





TABLE 17: FOB Shanghai prices of major insecticides in China, 8 May, 2023, USD/t

Product	20230408	20230508
95% Abamectin technical	64,226.23	59,126.24
97% Acephate technical	6,956.8	6,585.13
95% Acetamiprid technical	12,955.36	11,474.35
95% Azocyclotin technical	31,282.68	31,169.88
95% Beta-Cypermethrin technical	18,950.52	17,787.56
97% Bifenthrin technical	26,703.14	24,014.39
95% Buprofezin technical	10,465.66	9,999.38
98% Carbofuran technical	14,981.17	14,927.15
98% Chlorfenapyr technical	24,149.3	21,231.37
95% Chlorfluazuron technical	58,800.63	56,470.94
95% Chlorpyrifos technical	5,799.1	5,403.54
94% Cypermethrin technical	9,814	9,365.43
99% Cyromazine technical	18,814.07	18,062.06
98% Deltamethrin technical	68,312.85	58,537.21
95% Diafenthiuron technical	16,909.57	16,437.66
98% Dimethoate technical	6,643.61	6,619.65
70% Emamectin benzoate technical	56,655.85	52,852.77
92% Fenvalerate technical	19,246.67	19,177.27
95% Fipronil technical	72,224.53	68,690.44
98% Hexaflumuron technical	67,990.2	64,922.33
97% Imidacloprid technical	14,376.16	12,762.7
98% Isoprocarb technical	6,357.3	6,334.38
95% Lambda-cyhalothrin technical	21,535.34	18,860.9





Product	20230408	20230508
90% Malathion technical	5,334.79	5,315.55
95% Methidathion technical	12,874.49	12,828.07
Methomyl 90% SP	10,354.92	10,360.46
98% Methomyl technical	12,166.78	12,091.82
75% Omethoate technical	7,245.28	7,219.15
90% Phoxim technical	6,041.64	5,589.87
90% Profenofos technical	11,578.57	11,192.64
90% Propargite technical	8,634.35	8,603.21
95% Pymetrozine technical	14,508.37	15,072.66
95% Pyridaben technical	14,994.56	14,513.62
97% Spirodiclofen technical	21,281.17	21,204.43
85% Triazophos technical	9,932.5	9,896.69

Note: FOB price is calculated mainly based on ex-works price, tax refund, value added tax rate, exchange rate, etc.

Source: CCM



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